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# 3



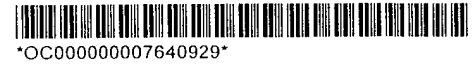
UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D. C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/076,946	02/14/2002	Gary D. Shives	P2005-1/N8208

CONFIRMATION NO. 3411

FORMALITIES LETTER

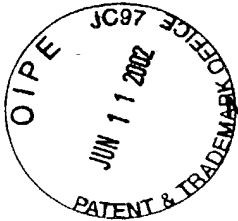


\*OC000000007640929\*

James R. Cartiglia  
UCAR Carbon Company Inc  
Brandywine West  
1521 Concord Pike, Suite 301  
Wilmington, DE 19803

MAR 20

Date Mailed: 03/14/2002



NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing  
*Applicant must submit \$ 740 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*
- The oath or declaration is missing  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 870.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm (1 inch), a left side margin of at least 2.5 cm (1 inch), a right side margin of at least 1.5 cm (5/8 inch), and a bottom margin of at least 1.0 cm (3/8 inch),
  - the application contains color drawings or color photographs, but not a black and white copy of the drawings/photographs (see 37 CFR 1.84(a)(2)(iii) and 1.165(b)),

06/17/2002 A05HAN1 00000058 210010 10076946

01 FC:101 740.00 CH  
02 FC:105 130.00 CH

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*A copy of this notice MUST be returned with the reply.*

Wilbrow  
Customer Service Center  
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

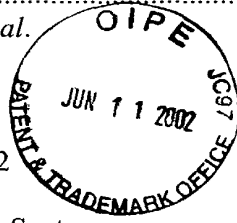
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Shives *et al.*

SERIAL NO: 10/076,946

FILED: February 14, 2002

FOR: Electrode Inspection System



: ART UNIT: 2858

: EXAMINER: TBD

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Asst. Commissioner for Patents  
 Washington, D.C. 20231

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST-CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASST. COMMISSIONER FOR PATENTS AND TRADEMARKS, WASHINGTON D.C. 20231 ON THIS 4<sup>th</sup> DAY OF June 2002.

BY: Conie A. McPherson

**TRANSMITTAL OF MISSING PARTS**

Sir:

Please find the enclosed papers:

- 1) Original Declaration/Power of Attorney form executed by inventors;
- 2) Original executed Assignment along with one Recordation Form Cover Sheet (PTO-1595);
- 3) Formal Drawings - Figures 1-11 (10 sheets);
- 4) Extension of Time
- 5) A copy of the Notice to File Missing Parts.

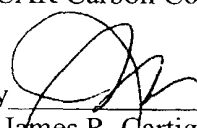
The Commissioner is authorized to charge Deposit Account No. 21-0010 the amount of \$40.00 to cover the Assignment recording fee; \$130.00 to cover the surcharge for missing parts and \$110.00 for the extension of time fee.

The Commissioner is authorized to charge Deposit Account No. 21-0010 the amount of \$740.00 to cover the application filing fee.

The Commissioner is authorized to debit any deficiency, or credit any overpayment, of the above-mentioned fees to our Deposit Account No. 21-0010.

Respectfully submitted,

UCAR Carbon Company Inc.

By   
 James R. Cartiglia  
 Reg. No. 30,738  
 Tel. (302) 778-8206

JRC/cam



# FIRST CLASS MAIL

1521 Concord Pike, Ste 301  
Brandywine West Building  
Wilmington, DE 19803

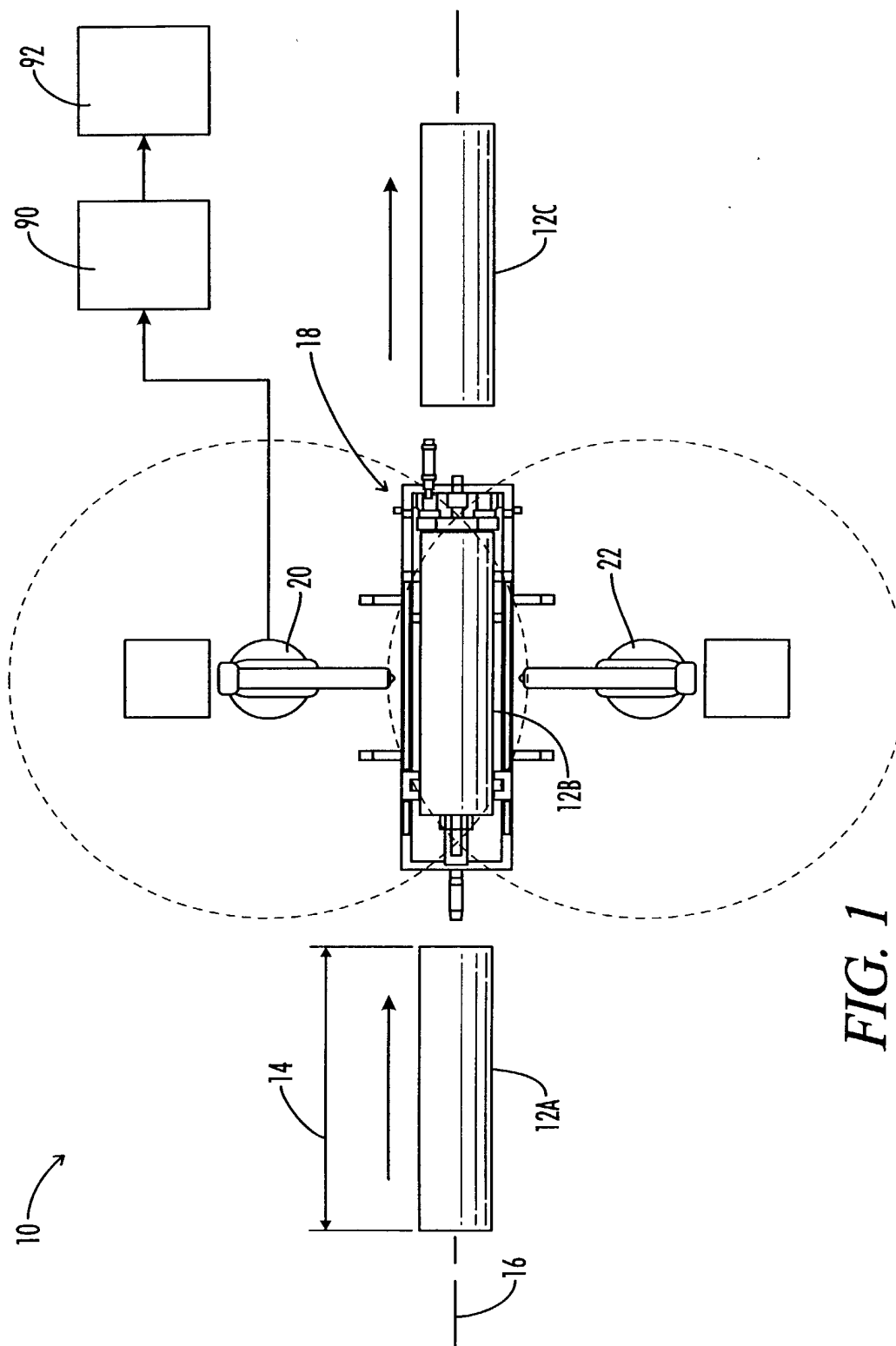


Assistant Commissioner for Patents  
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*Box missing Parts*

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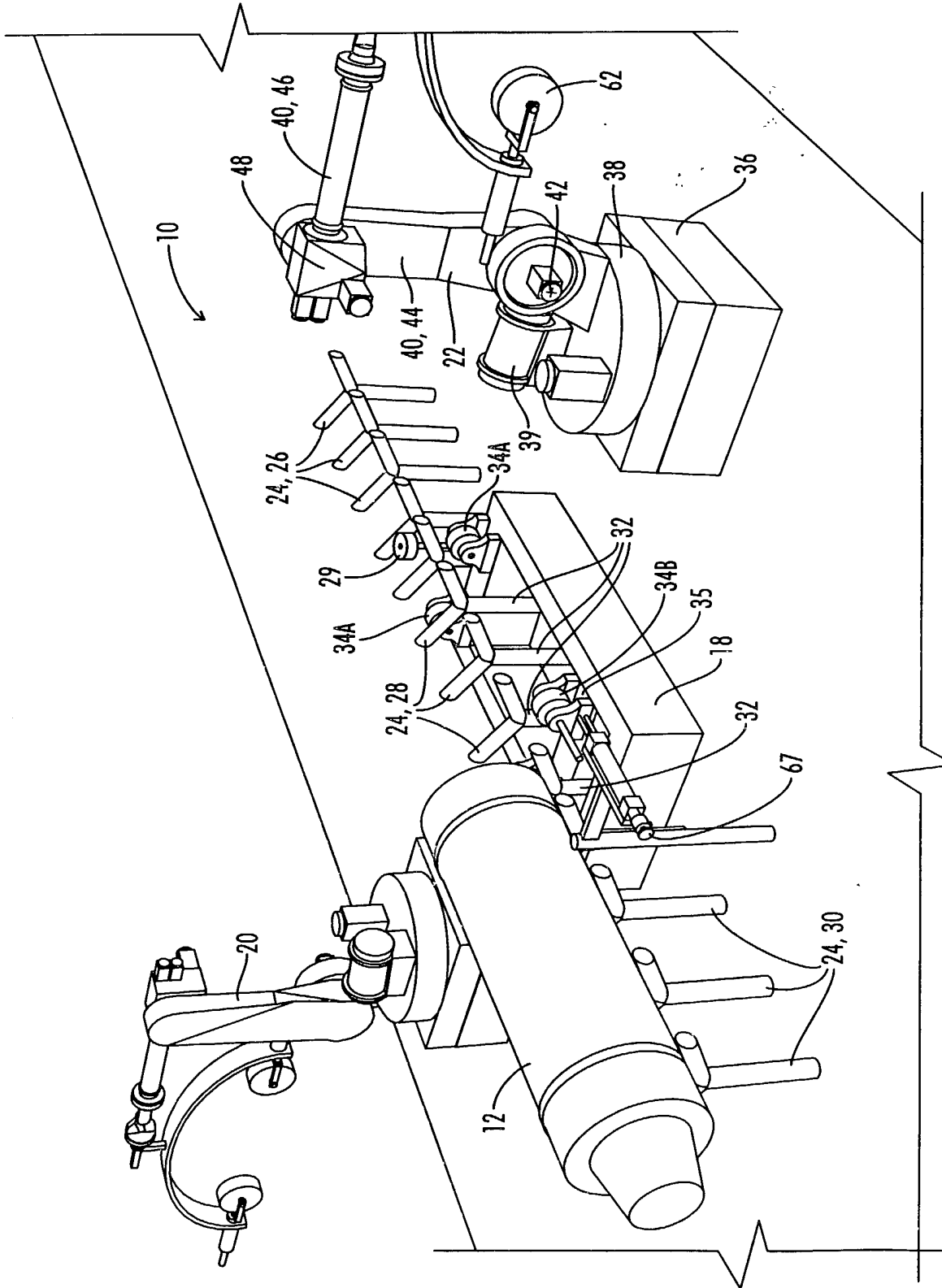


FIG. 2

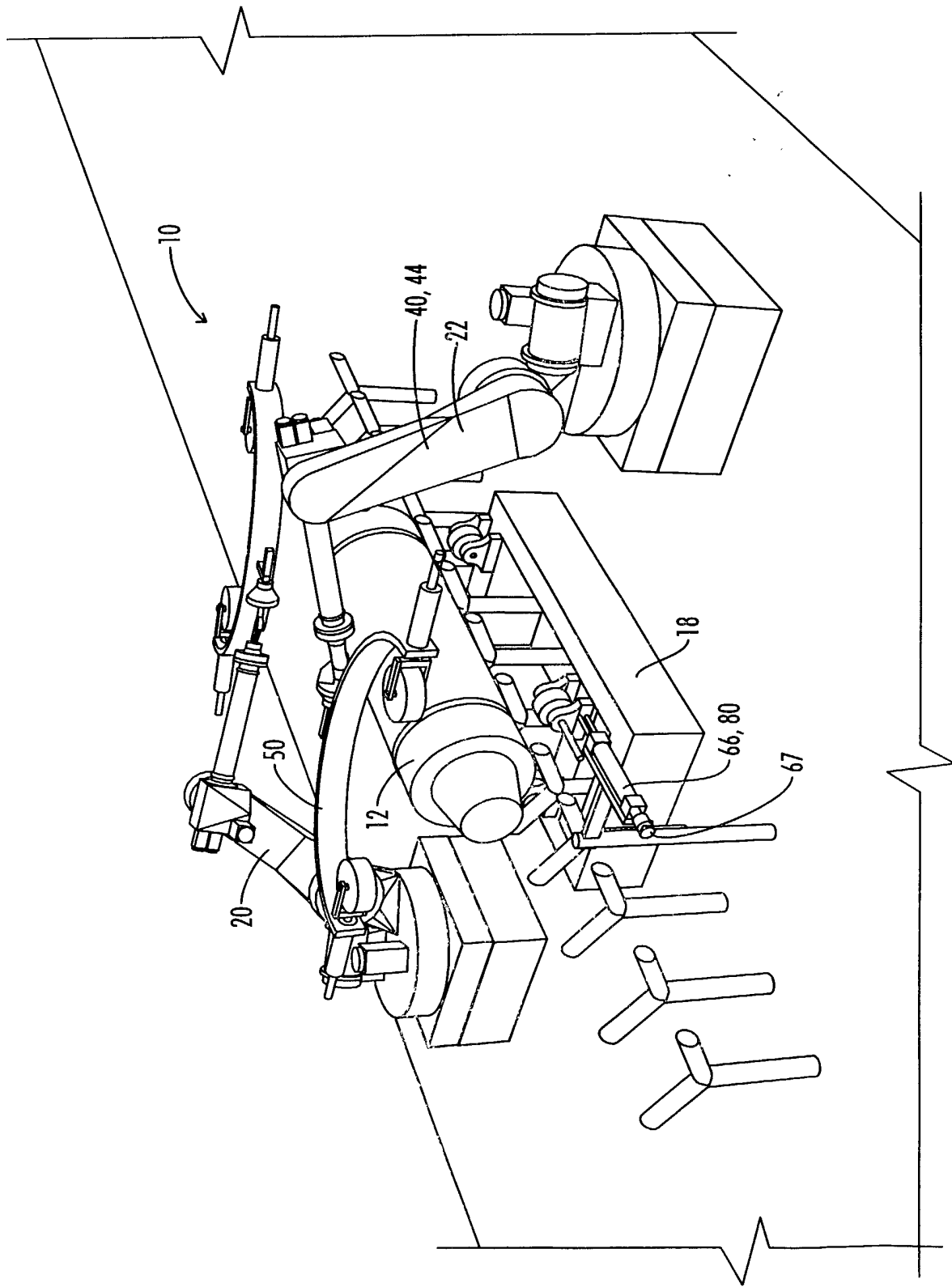


FIG. 3

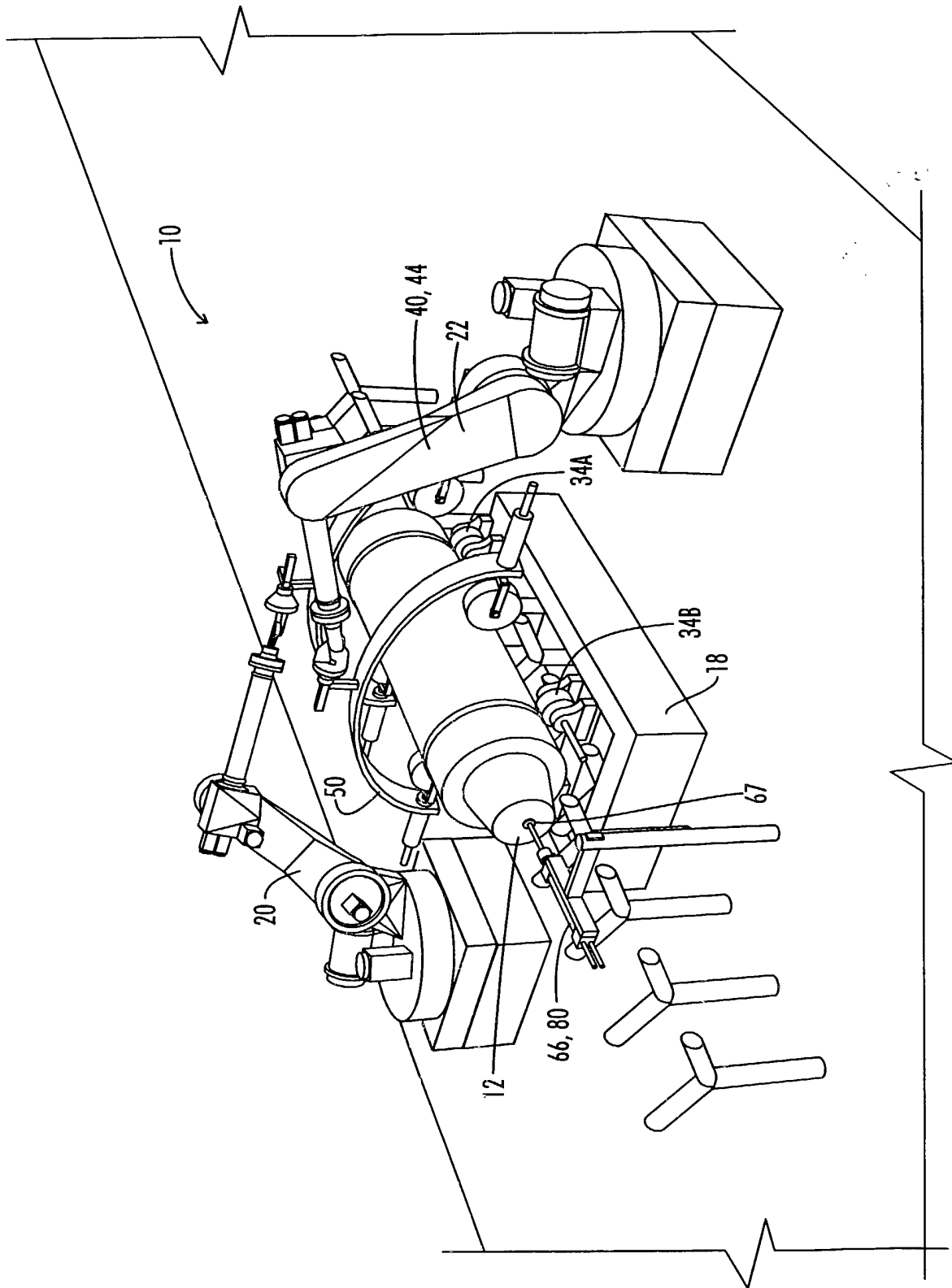


FIG. 4







FIG. 6

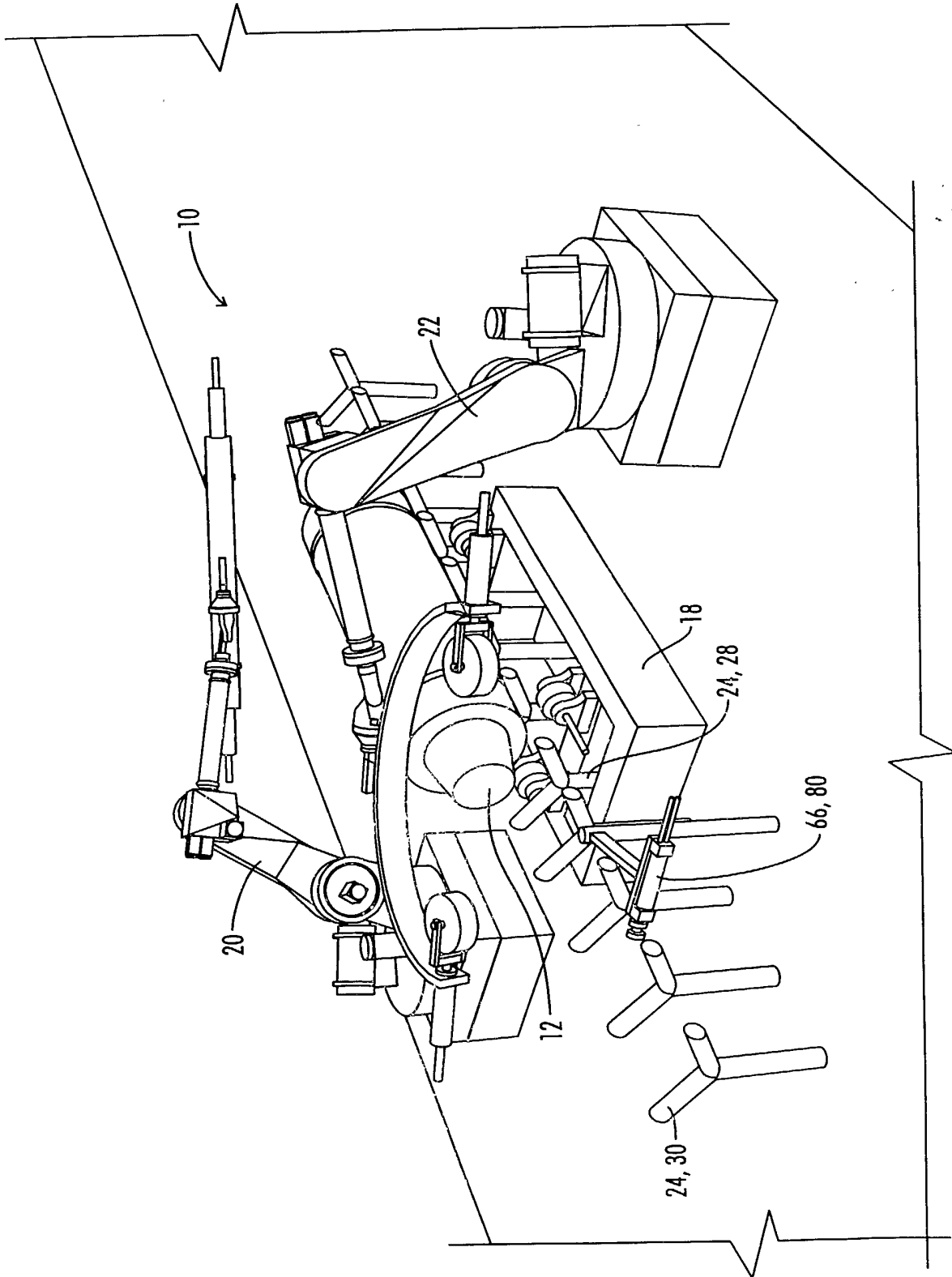
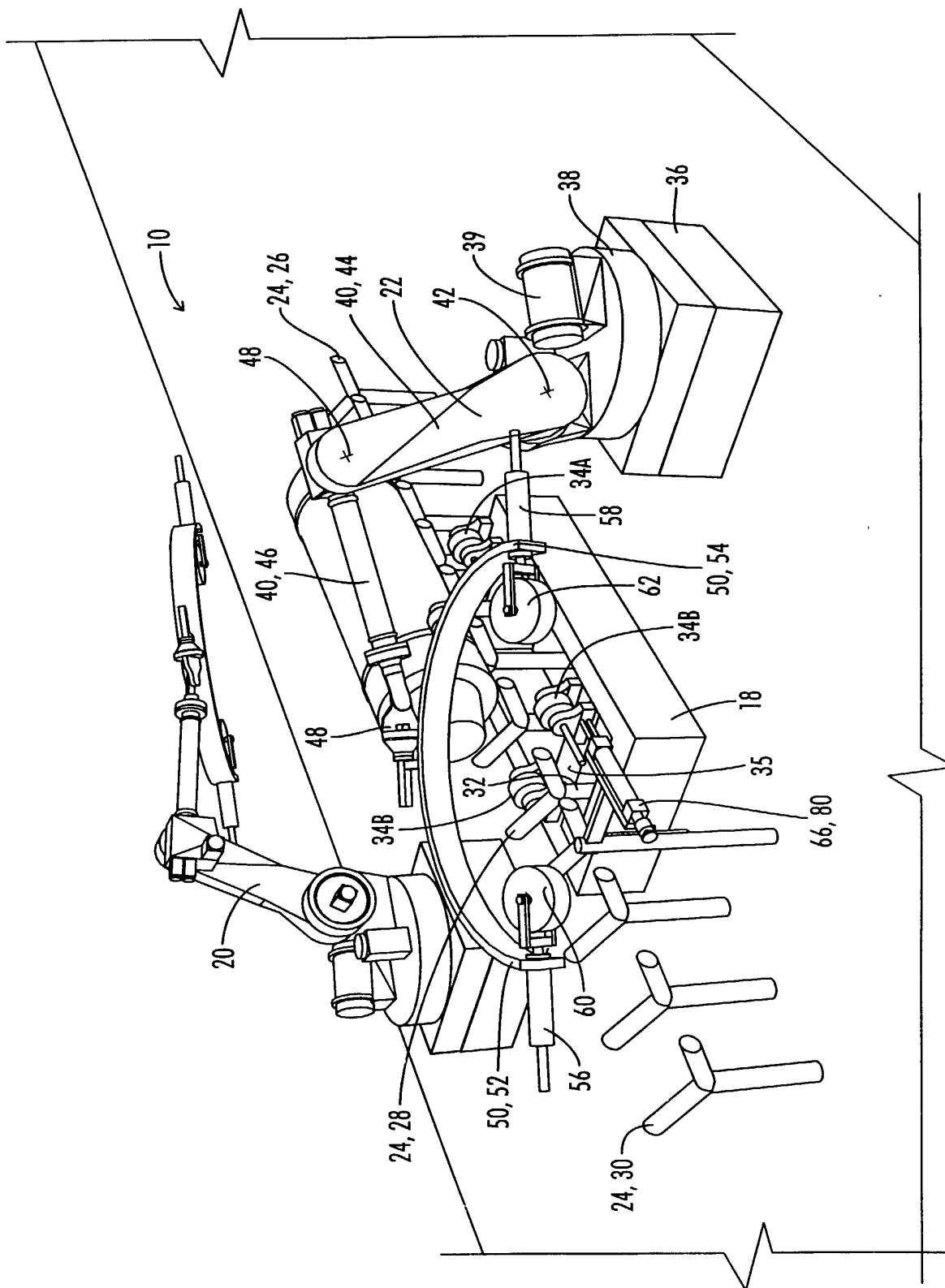


FIG. 7



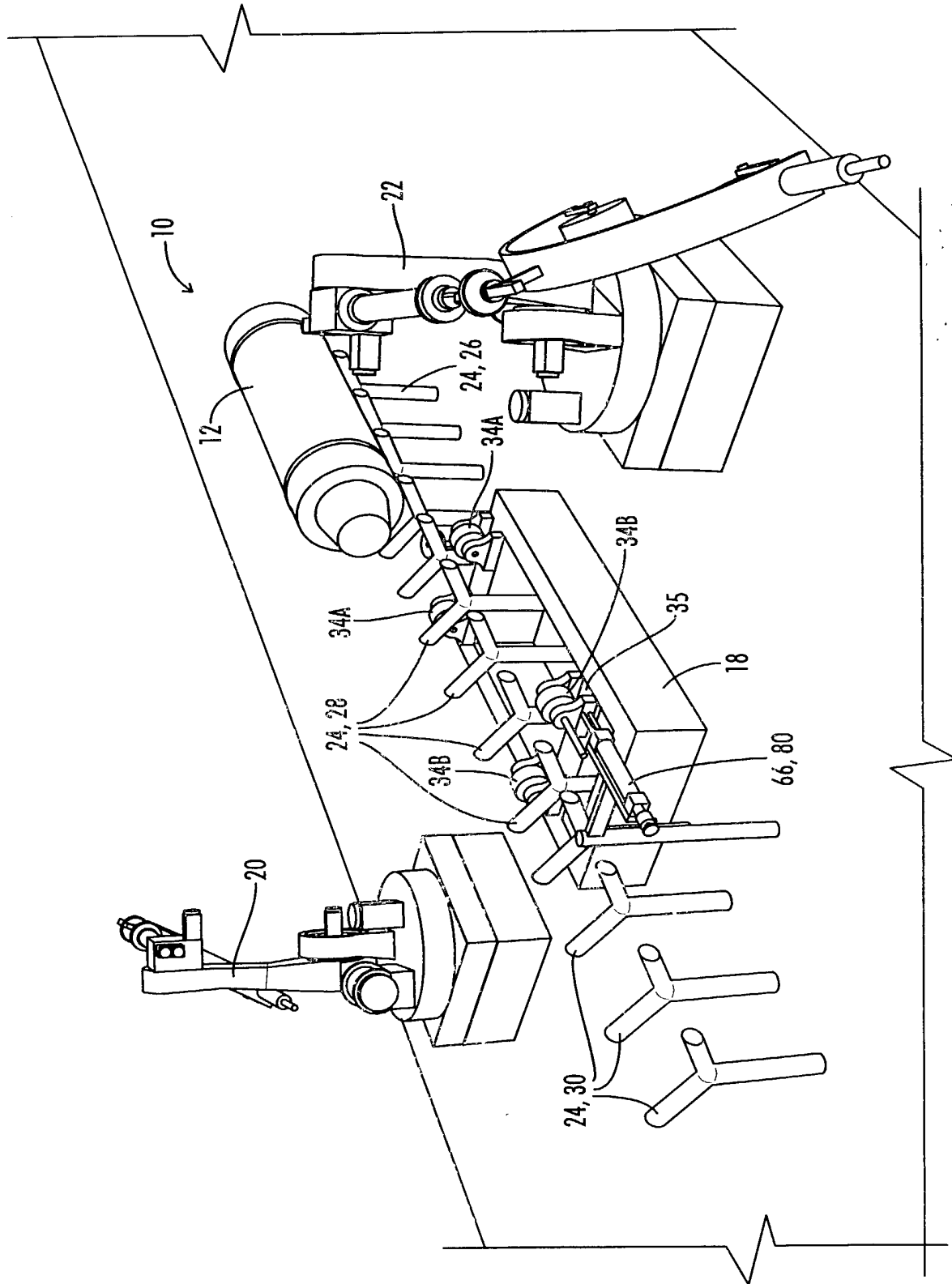


FIG. 9

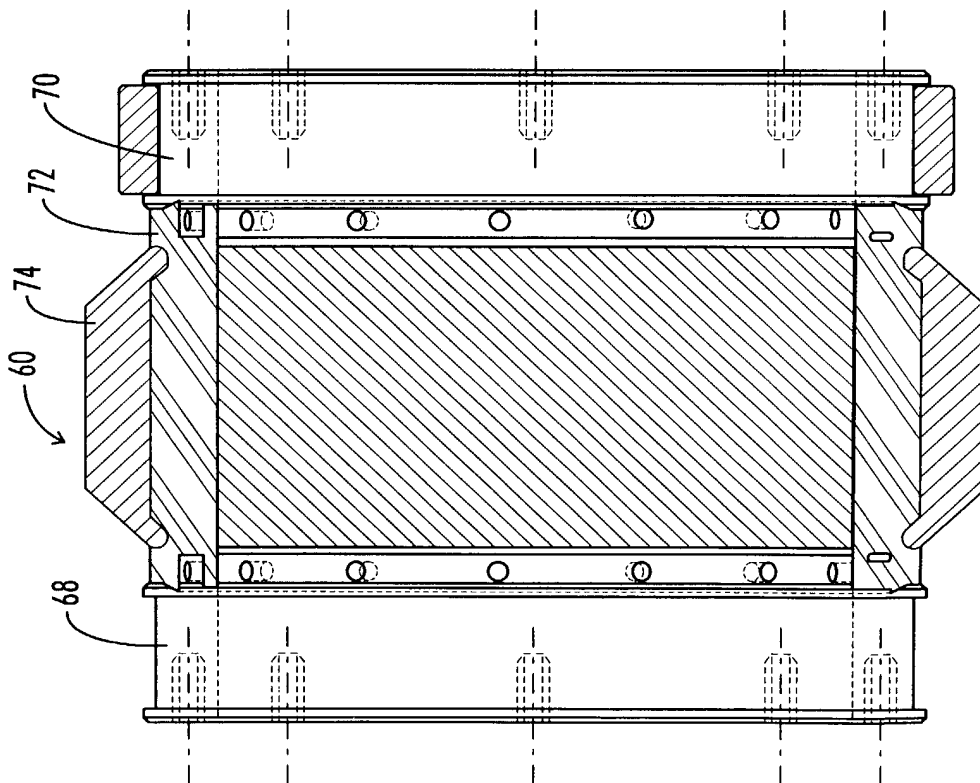


FIG. 10

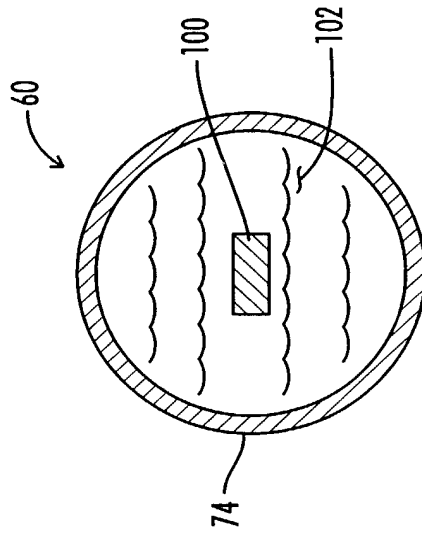
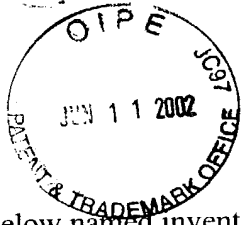


FIG. 11

ATTORNEY'S DOCKET NO. P-2005-1

# DECLARATION AND POWER OF ATTORNEY

## Original Application

As a below named inventor, I declare that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in this Declaration, that the information given herein is true, that I believe that I am the original, first and sole inventor if only one name is listed at 201 below, or a joint inventor if plural inventors are named below at 201 et seq., of the invention entitled: ELECTRODE INSPECTION SYSTEM

which is described and claimed in:

- ☐ the attached specification or  
☒ the specification in application Serial No. 10/076,946 filed February 14, 2002, and

that I acknowledge a duty to disclose information I am aware of which is material to the examination of this application in accordance with 37 CFR 1.56(a), that I do not know and do not believe that the same was ever known or used in the United States of America before my or our invention thereof or patented or described in any printed publication in any country before my or our invention thereof, or more than one year prior to the earliest date of this application or the provisional application(s) identified below, or in public use or on sale in the United States of America more than one year prior to the earliest date of this application or the provisional application(s) identified below, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to the earliest date of this application or the provisional application(s) identified below and that as to applications for patent or inventor's certificate filed by me or my legal representatives or assigns in any country foreign to the United States of America, the earliest filed foreign application(s) filed within twelve months prior to the earliest date of filing date of this application or the provisional application(s) identified below and all foreign applications filed more than twelve months prior to the filing date of this application are identified at 600 and, as required, 601 below.

CHECK APPROPRIATE BOX:	
6	<input checked="" type="checkbox"/> No earlier-filed foreign applications.
0	<input type="checkbox"/> Required information as to foreign applications filed prior to filing date of this application is at 601
0	on page 2 attached hereto and made a part hereof.

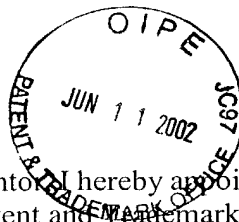
I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

Application No. 60/268,952

Filing Date February 15, 2001

Application No. \_\_\_\_\_

Filing Date \_\_\_\_\_



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**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**JAMES R. CARTIGLIA, REG. NO. 30738**  
**Mark J. Patterson (Reg. No. 30,412)**  
**I. C. Waddey, Jr. (Reg. No. 25,180)**  
**Edward D. Lanquist, Jr. (Reg. No. 33,729)**  
**Lucian Wayne Beavers (Reg. No. 28,183)**

**Douglas W. Schelling (Reg. No. 48,335)**  
**Emily A. Shouse (Reg. No. 44,336)**  
**David B. Pieper (Reg. No. 42,998)**  
**Richard S. Myers, Jr. (Reg. No. 42,022)**  
**Larry W. Brantley (Reg. No. P-46,052)**

<b>SEND CORRESPONDENCE TO:</b> UCAR CARBON COMPANY INC. Attn: James R. Cartiglia Brandywine West 1521 Concord Pike, Suite 301 Wilmington, DE 19803	<b>DIRECT TELEPHONE CALLS TO:</b> UCAR CARBON COMPANY INC. James R. Cartiglia Telephone: (302) 778-8206
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201	FULL NAME OF INVENTOR	LAST NAME SHIVES	FIRST NAME GARY	MIDDLE NAME D.
	RESIDENCE & CITIZENSHIP	CITY BRUNSWICK	STATE OR FOREIGN COUNTRY OHIO	COUNTRY OF CITIZENSHIP US
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 2900 ELMER DRIVE	CITY BRUNSWICK	STATE OR COUNTRY OHIO
202	FULL NAME OF INVENTOR	LAST NAME SIROCKY	FIRST NAME PAUL	MIDDLE NAME S.
	RESIDENCE & CITIZENSHIP	CITY BROOK PARK	STATE OR FOREIGN COUNTRY OHIO	COUNTRY OF CITIZENSHIP US
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 16220 CYNTHIA DRIVE	CITY BROOK PARK	STATE OR COUNTRY OHIO
203	FULL NAME OF INVENTOR	LAST NAME MICHAELS	FIRST NAME THOMAS	MIDDLE NAME E.
	RESIDENCE & CITIZENSHIP	CITY <del>WALTHAM</del> <i>TUCKER</i> <i>JRM</i>	STATE OR FOREIGN COUNTRY <del>MASSACHUSETTS</del> <i>GEORGIA</i> <i>JRM</i>	COUNTRY OF CITIZENSHIP <i>USA</i> <i>JRM</i>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <i>2736 RIDGE PARK DR.</i> <i>JRM</i>	CITY <del>WALTHAM</del> <i>TUCKER</i> <i>JRM</i>	STATE OR COUNTRY <del>MASSACHUSETTS</del> <i>GEORGIA</i> <i>JRM</i>
300	<input type="checkbox"/> Additional matter on page 2 attached hereto and made a part hereof. When page 2 is used, all signatures must be signed on page 2. List of Applicants continued on page 2.			
300	<input type="checkbox"/> YES <input type="checkbox"/> NO			

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201 <i>Gary D. Shives</i> DATE <i>3/22/02</i>	SIGNATURE OF INVENTOR 202 <i>Paul J. Sirocky</i> DATE <i>3-22-02</i>	SIGNATURE OF INVENTOR 203 <i>Thomas E. Michaels</i> DATE <i>5-8-02</i>
--	---	---